

IV. CANCER OVERVIEW IN SOUTH DAKOTA

ALL CANCER SITES

Table 1: Incidence and mortality summary, South Dakota 2003

	Total	Male	Female
Number of invasive cases ¹	3814	2045	1769
South Dakota incidence rate ²	458.2	547.7	391.6
United States incidence rate ³	458.2	533	397.8
Number of deaths	1636	861	775
South Dakota death rate ⁺	189.9	232.6	158.9
United States death rate [*]	190.1	234.1	160.5
Healthy People 2010 Objective	159.9		

¹ Includes in situ bladders

² South Dakota Department of Health

³ SEER U.S. rate

Rates are per 100,000 persons, age-adjusted to 2000 U.S. standard

Incidence data for 2003 and aggregate incidence for 2001-2003 are included in this section. Trends in incidence will not be presented as incidence data collected prior to 2001 did not attain the strict quality assurance and editing standards required for inclusion.

Mortality data covered in this section includes 2003, 1999-2003 and some trend data for years 1999 to 2003.

Data is suppressed at county level if less than 3 counts to protect the identity of individuals. Zero counts are reported as such. Considerable variations in counts can occur from year to year in a large rural state with a small population such as in South Dakota. For example, one additional case in a low population density can change the incidence rate to reflect statistical significance. Data with low counts can have wide confidence intervals and are considered unstable hence these rates published for counties when the count is less than 16 should be interpreted with caution.

Table 2: Incidence and mortality summary, South Dakota incidence 2001-2003 and mortality, 1999-2003

	Total	Male	Female
Number of invasive cases	3,933	2,124	1810
South Dakota incidence rate ¹	477.2	577.1	405.4
United States incidence rate ²	458.2	537.2	404.4
Number* of deaths	1605	850	755
South Dakota death rate ¹	189.0	236.6	156.2
United States death rate ²	195.7	243.7	164.3
Healthy People 2010 Objective	159.9		

* Average per year

¹South Dakota Department of Health

² SEER U.S. rate

Rates are per 100,000 persons, age-adjusted to 2000 U.S. standard population

Cancer incidence: South Dakota collected 3,996 new reportable cancer cases in 2003. Of these, 3,814 were all invasive cancers and bladder *in situ*. The top five cancers are presented in Table 3.

Cancer incidence by counties for 2003 are presented in Table 5. Aggregate incidence for the 3-year period is in Table 6. Figures 3 and 4 are maps illustrating incidence density, with Figure 3 showing rates and Figure 4 showing cases distributed randomly. Cases by sites using SEER recodes (Appendix B) is presented in Table 9.

Stage at Diagnosis is presented in Figures 7-20.

Cancer mortality: South Dakota had 1,636 deaths due to cancer in 2003. Table 7 shows 2003 death data by county while Table 8 shows the 5-year 1999-2003 county deaths. Figures 5 and 6 are maps illustrating death density, with Figure 5 showing death rates and Figure 6 showing deaths distributed randomly. Deaths by site using SEER recodes (Appendix C) is presented in Table 10.

**Table 3: Top five cancers diagnosed,
South Dakota 2003**

Site	No. of Cases	Percentage
Prostate	677	17%
Breast female	623	16%
Lung & bronchus	496	12%
Colorectal	480	12%
Bladder	200	5.5%

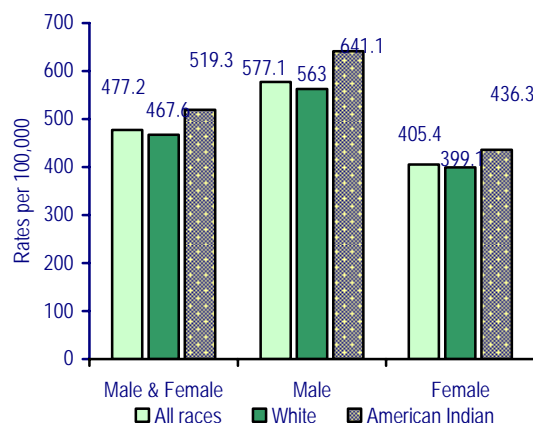
Source: South Dakota Department of Health

**Table 2: Top five cancers cause of death,
South Dakota 2003**

Site	No. of Cases	Percent
Lung & bronchus	405	25%
Colorectal	179	11%
Breast (female)	121	14%
Prostate	107	7%
Pancreas	94	6%

Source: South Dakota Department of Health

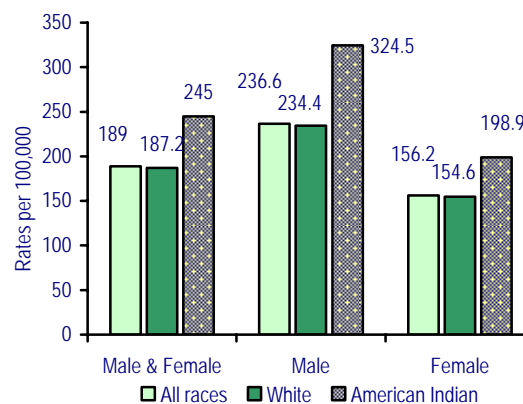
**Figure 1: All cancers age-adjusted
incidence rates by race,
South Dakota 2001-2003**



Note: Rates are age-adjusted to the 2000 U.S. standard population

Source: South Dakota Department of Health

**Figure 2: All cancers age-adjusted
death rates by race,
South Dakota 1999-2003**



Note: Rates are age-adjusted to the 2000 U.S. standard population

Source: South Dakota Department of Health